

NEXLETOL- bempedoic acid tablet, film coated
Esperion Therapeutics, Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use NEXLETOL™ safely and effectively. See full prescribing information for NEXLETOL.

NEXLETOL (bempedoic acid) tablets, for oral use

Initial U.S. Approval: 2020

INDICATIONS AND USAGE

NEXLETOL is an adenosine triphosphate-citrate lyase (ACL) inhibitor indicated as an adjunct to diet and maximally tolerated statin therapy for the treatment of adults with heterozygous familial hypercholesterolemia or established atherosclerotic cardiovascular disease who require additional lowering of LDL-C. (1)

Limitations of Use: The effect of NEXLETOL on cardiovascular morbidity and mortality has not been determined. (1)

DOSAGE AND ADMINISTRATION

Administer 180 mg orally once daily with or without food. (2.1)

DOSAGE FORMS AND STRENGTHS

Tablets: 180 mg (3)

CONTRAINDICATIONS

None. (4)

WARNINGS AND PRECAUTIONS

- *Hyperuricemia:* Elevations in serum uric acid have occurred. Assess uric acid levels periodically as clinically indicated. Monitor for signs and symptoms of hyperuricemia, and initiate treatment with urate-lowering drugs as appropriate. (5.1)
- *Tendon Rupture:* Tendon rupture has occurred. Discontinue NEXLETOL at the first sign of tendon rupture. Avoid NEXLETOL in patients who have a history of tendon disorders or tendon rupture. (5.2)

ADVERSE REACTIONS

Most common (incidence $\geq 2\%$ and greater than placebo) adverse reactions are upper respiratory tract infection, muscle spasms, hyperuricemia, back pain, abdominal pain or discomfort, bronchitis, pain in extremity, anemia, and elevated liver enzymes. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Esperion at 833-377-7633 (833 ESPRMD) or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- *Simvastatin:* Avoid concomitant use of NEXLETOL with simvastatin greater than 20 mg. (7)
- *Pravastatin:* Avoid concomitant use of NEXLETOL with pravastatin greater than 40 mg. (7)

USE IN SPECIFIC POPULATIONS

- *Pregnancy:* Based on mechanism of action, may cause fetal harm. (8.1)
- *Lactation:* Breastfeeding is not recommended with NEXLETOL. (8.2)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: 2/2020

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

NEXLETOL is indicated as an adjunct to diet and maximally tolerated statin therapy for the treatment of adults with heterozygous familial hypercholesterolemia or established atherosclerotic cardiovascular disease who require additional lowering of LDL-C.

Limitations of Use

The effect of NEXLETOL on cardiovascular morbidity and mortality has not been determined.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage

The recommended dosage of NEXLETOL, in combination with maximally tolerated statin therapy, is 180 mg administered orally once daily. NEXLETOL can be taken with or without food.

After initiation of NEXLETOL, analyze lipid levels within 8 to 12 weeks.

3 DOSAGE FORMS AND STRENGTHS

NEXLETOL is available as:

- Tablets: 180 mg, white to off-white, oval shaped, debossed with "180" on one side and "ESP" on the other side.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Hyperuricemia

NEXLETOL inhibits renal tubular OAT2 and may increase blood uric acid levels [*see Clinical Pharmacology (12.3)*]. In clinical trials, 26% of NEXLETOL-treated patients with normal baseline uric acid values (versus 9.5% placebo) experienced hyperuricemia one or more times, and 3.5% of patients experienced clinically significant hyperuricemia reported as an adverse reaction (versus 1.1% placebo). Increases in uric acid levels usually occurred within the first 4 weeks of treatment initiation and persisted throughout treatment. After 12 weeks of treatment, the mean placebo-adjusted increase in uric acid compared to baseline was 0.8 mg/dL for patients treated with NEXLETOL.

Elevated blood uric acid may lead to the development of gout. Gout was reported in 1.5% of patients treated with NEXLETOL and 0.4% of patients treated with placebo. The risk for gout events was higher in patients with a prior history of gout (11.2% NEXLETOL versus 1.7% placebo), although gout also occurred more frequently than placebo in patients treated with NEXLETOL who had no prior gout history (1.0% NEXLETOL versus 0.3% placebo).

Advise patients to contact their healthcare provider if symptoms of hyperuricemia occur. Assess serum uric acid when clinically indicated. Monitor patients for signs and symptoms of hyperuricemia, and initiate treatment with urate-lowering drugs as appropriate.

5.2 Tendon Rupture

NEXLETOL is associated with an increased risk of tendon rupture or injury. In clinical trials, tendon rupture occurred in 0.5% of patients treated with NEXLETOL versus 0% of placebo-treated patients and involved the rotator cuff (the shoulder), biceps tendon, or Achilles tendon. Tendon rupture occurred within weeks to months of starting NEXLETOL. Tendon rupture may occur more frequently in patients over 60 years of age, in those taking corticosteroid or fluoroquinolone drugs, in patients with renal failure, and in patients with previous tendon disorders.

Discontinue NEXLETOL immediately if the patient experiences rupture of a tendon. Consider discontinuing NEXLETOL if the patient experiences joint pain, swelling, or inflammation. Advise patients to rest at the first sign of tendinitis or tendon rupture and to contact their healthcare provider if tendinitis or tendon rupture symptoms occur. Consider alternative therapy in patients with a history of tendon disorders or tendon rupture.

6 ADVERSE REACTIONS

The following clinically significant adverse reactions are described elsewhere in the labeling:

- Hyperuricemia [*see Warnings and Precautions (5.1)*]
- Tendon Rupture [*see Warnings and Precautions (5.2)*]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice.

The data described below reflect exposure to NEXLETOL in two placebo-controlled trials that included 2009 patients treated with NEXLETOL for 52 weeks (median treatment duration of 52 weeks) [*see Clinical Studies (14)*]. The mean age for NEXLETOL-treated patients was 65.4 years, 29% were women, 3% were Hispanic, 95% White, 3% Black, 1% Asian, and 1% other races. All patients received

NEXLETOL 180 mg orally once daily plus maximally tolerated statin therapy alone or in combination with other lipid-lowering therapies. At baseline, 97% of patients had clinical atherosclerotic cardiovascular disease (ASCVD) and about 4% had a diagnosis of heterozygous familial hypercholesterolemia (HeFH). Patients on simvastatin 40 mg/day or higher were excluded from the trials.

Adverse reactions led to discontinuation of treatment in 11% of NEXLETOL-treated patients and 8% of placebo-treated patients. The most common reasons for NEXLETOL treatment discontinuation were muscle spasms (0.5% versus 0.3% placebo), diarrhea (0.4% versus 0.1% placebo), and pain in extremity (0.3% versus 0.0% placebo). Adverse reactions reported in at least 2% of NEXLETOL-treated patients and more frequently than in placebo-treated patients are shown in Table 1.

Table 1. Adverse Reactions ($\geq 2\%$ and Greater than placebo) in NEXLETOL-Treated Patients with ASCVD and HeFH (Studies 1 and 2)

Adverse Reaction	NEXLETOL + Statin and ± Other Lipid Lowering Therapies (N = 2009) %	Placebo (N = 999) %
Upper respiratory tract infection	4.5	4.0
Muscle spasms	3.6	2.3
Hyperuricemia*	3.5	1.1
Back pain	3.3	2.2
Abdominal pain or discomfort†	3.1	2.2
Bronchitis	3.0	2.5
Pain in extremity	3.0	1.7
Anemia	2.8	1.9
Elevated liver enzymes‡	2.1	0.8

* Hyperuricemia includes hyperuricemia and blood uric acid increased.

† Abdominal pain or discomfort includes abdominal pain, abdominal pain upper, abdominal pain lower, and abdominal discomfort.

‡ Elevated liver enzymes includes AST increased, ALT increased, hepatic enzyme increased, and liver function test increased.

Tendon Rupture

NEXLETOL was associated with an increased risk of tendon rupture, occurring in 0.5% of NEXLETOL-treated patients versus 0% of placebo-treated patients.

Gout

NEXLETOL was associated with an increased risk of gout, occurring in 1.5% of NEXLETOL-treated patients versus 0.4% of placebo-treated patients.

Benign Prostatic Hyperplasia

NEXLETOL was associated with an increased risk of benign prostatic hyperplasia (BPH) or prostatomegaly in men with no reported history of BPH, occurring in 1.3% of NEXLETOL-treated patients versus 0.1% of placebo-treated patients. The clinical significance is unknown.

Atrial Fibrillation

NEXLETOL was associated with an imbalance in atrial fibrillation, occurring in 1.7% of NEXLETOL-

treated patients versus 1.1% of placebo-treated patients.

Laboratory Tests

NEXLETOL was associated with persistent changes in multiple laboratory tests within the first 4 weeks of treatment. Laboratory test values returned to baseline following discontinuation of treatment.

Increase in Creatinine and Blood Urea Nitrogen: Overall, there was a mean increase in serum creatinine of 0.05 mg/dL compared to baseline with NEXLETOL at Week 12. Approximately 3.8% of patients treated with NEXLETOL had blood urea nitrogen values that doubled (versus 1.5% placebo), and about 2.2% of patients had creatinine values that increased by 0.5 mg/dL (versus 1.1% placebo).

Decrease in Hemoglobin and Leukocytes: Approximately 5.1% of patients (versus 2.3% placebo) had decreases in hemoglobin levels of 2 or more g/dL and below the lower limit of normal on one or more occasion. Anemia was reported in 2.8% of patients treated with NEXLETOL and 1.9% of patients treated with placebo. Hemoglobin decrease was generally asymptomatic and did not require medical intervention. Decreased leukocyte count was also observed. Approximately 9.0% of NEXLETOL-treated patients with normal baseline leukocyte count had a decrease to less than the lower limit of normal on one or more occasion (versus 6.7% placebo). Leukocyte decrease was generally asymptomatic and did not require medical intervention. In clinical trials, there was a small imbalance in skin or soft tissue infections, including cellulitis (0.8% versus 0.4%), but there was no imbalance in other infections.

Increase in Platelet Count: Approximately 10.1% of patients (versus 4.7% placebo) had increases in platelet counts of $100 \times 10^9/L$ or more on one or more occasion. Platelet count increase was asymptomatic, did not result in increased risk for thromboembolic events, and did not require medical intervention.

Increase in Liver Enzymes: Increases in hepatic transaminases (AST and/or ALT) were observed with NEXLETOL. In most cases, the elevations were transient and resolved or improved with continued therapy or after discontinuation of therapy. Increases to more than $3 \times$ the upper limit of normal (ULN) in AST occurred in 1.4% of patients treated with NEXLETOL versus 0.4% of placebo patients, and increases to more than $5 \times$ ULN occurred in 0.4% of NEXLETOL-treated versus 0.2% of placebo-treated patients. Increases in ALT occurred with similar incidence between NEXLETOL- and placebo-treated patients. Elevations in transaminases were generally asymptomatic and not associated with elevations $\geq 2 \times$ ULN in bilirubin or with cholestasis.

Increase in Creatine Kinase: Approximately 1.0% of patients (versus 0.6% placebo) had elevations of CK levels of 5 or more times the normal value on one or more occasions, and 0.4% of patients (versus 0.2% placebo) had elevations of CK levels of 10 or more times.

7 DRUG INTERACTIONS

Simvastatin	
<i>Clinical Impact:</i>	Concomitant use of NEXLETOL with simvastatin causes an increase in simvastatin concentration and may increase the risk of simvastatin-related myopathy [see Clinical Pharmacology (12.3)].
<i>Intervention:</i>	Avoid concomitant use of NEXLETOL with simvastatin greater than 20 mg.
Pravastatin	
<i>Clinical Impact:</i>	Concomitant use of NEXLETOL with pravastatin causes an increase in pravastatin concentration and may increase the risk of pravastatin-related myopathy [see Clinical Pharmacology (12.3)].

<i>Intervention:</i>	Avoid concomitant use of NEXLETOL with pravastatin greater than 40 mg.
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8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Discontinue NEXLETOL when pregnancy is recognized unless the benefits of therapy outweigh the potential risks to the fetus.

There are no available data on NEXLETOL use in pregnant women to evaluate for a drug-associated risk of major birth defects, miscarriage, or adverse maternal or fetal outcomes. In animal reproduction studies, bempedoic acid was not teratogenic in rats and rabbits when administered at doses resulting in exposures up to 11 and 12 times, respectively, the human exposures at the maximum clinical dose, based on AUC (*see Data*). NEXLETOL decreases cholesterol synthesis and possibly the synthesis of other biologically active substances derived from cholesterol; therefore, NEXLETOL may cause fetal harm when administered to pregnant women based on the mechanism of action [*see Clinical Pharmacology (12.1)*]. In addition, treatment of hyperlipidemia is not generally necessary during pregnancy. Atherosclerosis is a chronic process and the discontinuation of lipid-lowering drugs during pregnancy should have little impact on the outcome of long-term therapy of primary hyperlipidemia for most patients.

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively.

Data

Animal Data

Bempedoic acid was not teratogenic when given orally at doses of 60 and 80 mg/kg/day, resulting in 11 and 12 times the systemic exposure in humans at the maximum recommended human dose (MRHD) of 180 mg to pregnant rats and rabbits, respectively. In an embryo-fetal development study in rats, bempedoic acid was given orally to pregnant rats at 10, 30, and 60 mg/kg/day during the period of organogenesis from gestation day 6 to 17. There were increases in the incidence of non-adverse fetal skeletal variations (bent long bones and bent scapula and incomplete ossification) at doses ≥ 10 mg/kg/day (less than the clinical exposure) in the absence of maternal toxicity. At maternally toxic doses, bempedoic acid caused decreases in the numbers of viable fetuses, increases in post-implantation loss, and increased total resorptions at 60 mg/kg/day (11 times MRHD) and reduced fetal body weight at ≥ 30 mg/kg/day (4 times the MRHD). No adverse development effects were observed when bempedoic acid was given to pregnant rabbits during the period of organogenesis (gestation day 6 to 18) at doses up to 80 mg/kg/day (12 times MRHD).

In a pre- and post-natal development study in pregnant rats given oral doses of bempedoic acid at 5, 10, 20, 30 and 60 mg/kg/day throughout pregnancy and lactation (gestation day 6 to lactation day 20), there were adverse effects on delivery in the presence of maternal toxicity, including: increases in stillborn pups, reductions in numbers of live pups, pup survival, pup growth and slight delays in learning and memory at ≥ 10 mg/kg/day (at exposures equivalent to the MRHD).

8.2 Lactation

Risk Summary

There is no information regarding the presence of NEXLETOL in human or animal milk, the effects of the drug on the breastfed infant, or the effects of the drug on milk production. NEXLETOL decreases cholesterol synthesis and possibly the synthesis of other biologically active substances derived from

cholesterol and may cause harm to the breastfed infant. Because of the potential for serious adverse reactions in a breastfed infant, based on the mechanism of action, advise patients that breastfeeding is not recommended during treatment with NEXLETOL [see *Use in Specific Populations (8.1), Clinical Pharmacology (12.1)*].

8.4 Pediatric Use

The safety and effectiveness of NEXLETOL have not been established in pediatric patients.

8.5 Geriatric Use

Of the 3009 patients in clinical trials of NEXLETOL, 1753 (58%) were 65 years and older, while 478 (16%) were 75 years and older. No overall differences in safety or effectiveness were observed between these patients and younger patients, and other reported clinical experience has not identified differences in responses between the elderly and younger patients. However, greater sensitivity of some older individuals cannot be ruled out.

8.6 Renal Impairment

No dosage adjustment is necessary in patients with mild or moderate renal impairment. There is limited experience with NEXLETOL in patients with severe renal impairment (eGFR < 30 mL/min/1.73 m²), and NEXLETOL has not been studied in patients with end-stage renal disease (ESRD) receiving dialysis [see *Clinical Pharmacology (12.3)*].

8.7 Hepatic Impairment

No dosage adjustment is necessary in patients with mild or moderate hepatic impairment (Child-Pugh A or B) [see *Clinical Pharmacology (12.3)*]. Patients with severe hepatic impairment (Child-Pugh C) have not been studied.

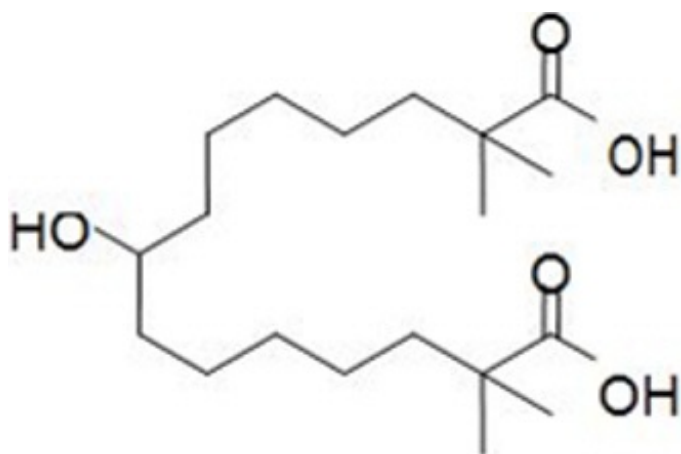
10 OVERDOSAGE

There is no clinical experience with NEXLETOL overdose. In the event of an overdose, contact Poison Control (1-800-222-1222) for latest recommendations.

11 DESCRIPTION

NEXLETOL tablets, for oral use, contain bempedoic acid, an adenosine triphosphate-citrate lyase (ACL) inhibitor. The chemical name for bempedoic acid is 8-hydroxy-2,2,14,14-tetramethyl-pentadecanedioic acid. The molecular formula is C₁₉H₃₆O₅, and the molecular weight is 344.5 grams per mole. Bempedoic acid is a white to off-white crystalline powder that is highly soluble in ethanol, isopropanol and pH 8 phosphate buffer, and insoluble in water and aqueous solutions below pH 5.

Structural formula:



Each film-coated tablet of NEXLETOL contains 180 mg of bempedoic acid and the following inactive ingredients: colloidal silicon dioxide, hydroxyl propyl cellulose, lactose monohydrate, magnesium stearate, microcrystalline cellulose, and sodium starch glycolate. The film coating comprises of partially hydrolyzed polyvinyl alcohol, polyethylene glycol, talc, and titanium dioxide.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Bempedoic acid is an adenosine triphosphate-citrate lyase (ACL) inhibitor that lowers low-density lipoprotein cholesterol (LDL-C) by inhibition of cholesterol synthesis in the liver. ACL is an enzyme upstream of 3-hydroxy-3-methyl-glutaryl-coenzyme A (HMG-CoA) reductase in the cholesterol biosynthesis pathway. Bempedoic acid and its active metabolite, ESP15228, require coenzyme A (CoA) activation by very long-chain acyl-CoA synthetase 1 (ACSVL1) to ETC-1002-CoA and ESP15228-CoA, respectively. ACSVL1 is expressed primarily in the liver. Inhibition of ACL by ETC-1002-CoA results in decreased cholesterol synthesis in the liver and lowers LDL-C in blood via upregulation of low-density lipoprotein receptors.

12.2 Pharmacodynamics

Administration of bempedoic acid in combination with maximally tolerated statins, with or without other lipid modifying agents, decreases LDL-C, non-high density lipoprotein cholesterol (non-HDL-C), apolipoprotein B (apo B), and total cholesterol (TC) in patients with hyperlipidemia.

Cardiac Electrophysiology

At a dose of 240 mg (1.3 times the approved recommended dose), bempedoic acid does not prolong the QT interval to any clinically relevant extent.

12.3 Pharmacokinetics

Bempedoic acid pharmacokinetic parameters are presented as the mean [standard deviation \pm (SD)] unless otherwise specified. The steady-state maximum plasma concentration (C_{\max}) and area under the curve (AUC) following multiple-dose administration of bempedoic acid at 180 mg/day were 20.6 ± 6.1 $\mu\text{g/mL}$ and 289.0 ± 96.4 $\mu\text{g}\cdot\text{h/mL}$, respectively. Bempedoic acid steady-state pharmacokinetics were generally linear over a range of > 60 mg to 220 mg (approximately 33% to 122% of the recommended dosage of 180 mg daily). There were no time-dependent changes in bempedoic acid pharmacokinetics following repeat administration at the recommended dosage, and bempedoic acid steady-state was achieved after 7 days. The mean accumulation ratio was approximately 2.3-fold.

The steady-state C_{\max} and AUC of the active metabolite (ESP15228) of bempedoic acid were 2.8 ± 0.9 $\mu\text{g/mL}$ and 51.2 ± 17.2 $\mu\text{g}\cdot\text{h/mL}$, respectively. ESP15228 likely made a minor contribution to the overall

clinical activity of bempedoic acid based on systemic exposure, relative potency, and pharmacokinetic properties.

Absorption

Pharmacokinetic data indicate that bempedoic acid is absorbed with a median time to maximum concentration of 3.5 hours when administered as NEXLETOL 180 mg tablets.

Effect of Food

Concomitant food administration had no effect on the oral bioavailability of bempedoic acid.

Distribution

The bempedoic acid apparent volume of distribution (V/F) was 18 L. Plasma protein binding of bempedoic acid, its glucuronide and its active metabolite, ESP15228, were 99.3%, 98.8% and 99.2%, respectively. Bempedoic acid does not partition into blood cells.

Elimination

The steady-state clearance (CL/F) of bempedoic acid was 11.2 mL/min after once-daily dosing; renal clearance of unchanged bempedoic acid represented less than 2% of total clearance. The mean \pm SD half-life for bempedoic acid in humans was 21 \pm 11 hours at steady-state.

Metabolism

The primary route of elimination for bempedoic acid is through metabolism of the acyl glucuronide. Bempedoic acid is also reversibly converted to an active metabolite (ESP15228) based on aldo-keto reductase activity observed *in vitro* from human liver. Mean plasma AUC metabolite/parent drug ratio for ESP15228 following repeat-dose administration was 18% and remained constant over time. Both compounds are converted to inactive glucuronide conjugates *in vitro* by UGT2B7. Bempedoic acid, ESP15228 and their respective conjugated forms were detected in plasma with bempedoic acid accounting for the majority (46%) of the AUC_{0-48h} and its glucuronide being the next most prevalent (30%). ESP15228 and its glucuronide represented 10% and 11% of the plasma AUC_{0-48h}, respectively.

Excretion

Following single oral administration of 240 mg of bempedoic acid (1.3 times the approved recommended dose), approximately 70% of the total dose (bempedoic acid and its metabolites) was recovered in urine, primarily as the acyl glucuronide conjugate of bempedoic acid, and approximately 30% was recovered in feces. Less than 5% of the administered dose was excreted as unchanged bempedoic acid in feces and urine combined.

Specific Populations

Patients with Renal Impairment

Pharmacokinetics of bempedoic acid was evaluated in a single-dose pharmacokinetic study in subjects with varying degrees of renal function. The mean bempedoic acid AUC in subjects with mild renal impairment (n = 8) were 1.5-fold higher compared to those with normal renal function (n = 6). Relative to those with normal renal function, mean bempedoic acid AUCs were higher in patients with moderate (n = 5) or severe (n = 5) renal impairment by 2.3-fold and 2.4-fold, respectively.

A population pharmacokinetic analysis was performed on pooled data from all clinical trials (n = 2261) to further evaluate the effects of renal function on the steady-state AUC of bempedoic acid. Compared to patients with normal renal function, the mean bempedoic acid exposures were higher in patients with mild or moderate renal impairment by 1.4-fold (90% CI: 1.3, 1.4) and 1.9-fold (90% CI: 1.7, 2.0), respectively. These differences were not clinically significant. Clinical studies of NEXLETOL did not include patients with severe renal impairment (eGFR < 30 mL/min/1.73 m²) or patients with ESRD on dialysis [see *Use in Specific Populations* (8.6)].

Patients with Hepatic Impairment

The pharmacokinetics of bempedoic acid and its metabolite (ESP15228) was studied in patients with normal hepatic function or mild or moderate hepatic impairment (Child-Pugh A or B) following a single dose (n = 8/group). Compared to patients with normal hepatic function, the bempedoic acid mean C_{max} and AUC were decreased by 11% and 22%, respectively, in patients with mild hepatic impairment and by 14% and 16%, respectively, in patients with moderate hepatic impairment. Compared to patients with normal hepatic function, the ESP15228 mean C_{max} and AUC were decreased by 13% and 23%, respectively, in patients with mild hepatic impairment and by 24% and 36%, respectively, in patients with moderate hepatic impairment. This is not expected to result in lower efficacy.

Bempedoic acid was not studied in patients with severe hepatic impairment (Child Pugh C) [see *Use in Specific Populations* (8.7)].

Other Specific Populations

The pharmacokinetics of bempedoic acid were not affected by age, gender, race, or weight.

Drug Interaction Studies

Cytochrome P450 Substrates

In vitro metabolic interaction studies suggest that bempedoic acid, as well as its active metabolite and glucuronide forms are not metabolized by and do not interact with cytochrome P450 enzymes.

Transporter-mediated Drug Interactions

In vitro drug interaction studies suggest bempedoic acid, as well as its active metabolite and glucuronide form, are not substrates of commonly characterized drug transporters with the exception of bempedoic acid glucuronide, which is an OAT3 substrate. Bempedoic acid weakly inhibits OAT3 at high multiples of clinically relevant concentrations, and bempedoic acid and its glucuronide weakly inhibit OATP1B1, and OATP1B3 at clinically relevant concentrations. Bempedoic acid weakly inhibits OAT2 *in vitro*, which is likely the mechanism responsible for minor elevations in serum creatinine and uric acid [see *Adverse Reactions* (6.1)].

Probenecid

Administration of bempedoic acid 180 mg with steady-state probenecid resulted in a 1.7- and a 1.2-fold increase in bempedoic acid AUC and C_{max} , respectively. AUC and C_{max} for bempedoic acid active metabolite (ESP15228) were increased 1.9- and 1.5-fold, respectively. These elevations are not clinically meaningful and do not impact dosing recommendations.

Statins

The pharmacokinetic interactions between bempedoic acid (at systemic exposure relevant to the indicated ASCVD population) and simvastatin 20 mg, atorvastatin 10 mg, pravastatin 40 mg, and rosuvastatin 10 mg were evaluated in clinical trials.

Simvastatin: Administration of simvastatin 20 mg with 240 mg of bempedoic acid or 40 mg with 180 mg of bempedoic acid in healthy subjects at steady-state resulted in approximately 2-fold (91% for 20 mg and 96% for 40 mg) and 1.5-fold (54% for 20 mg and 52% for 40 mg) increases in simvastatin acid AUC and C_{max} , respectively [See *Drug Interactions* (7)].

Pravastatin: Administration of pravastatin 40 mg with steady-state bempedoic acid 240 mg in healthy subjects resulted in 99% (2-fold) and 104% (2-fold) increases in pravastatin acid AUC and C_{max} , respectively [see *Drug Interactions* (7)].

Atorvastatin and Rosuvastatin: Elevations of 1.7-fold in AUC of atorvastatin, and rosuvastatin and/or their major metabolites were observed, suggesting a weak interaction. These elevations were generally within the individual statin exposures and do not impact dosing recommendations.

Ezetimibe

Increases in AUC and C_{max} for ezetimibe were less than 20% when a single dose of ezetimibe was

taken with steady-state bempedoic acid. Total ezetimibe (ezetimibe and its glucuronide form) and ezetimibe glucuronide AUC and C_{max} increased approximately 1.6- and 1.8-fold, respectively. These elevations are not clinically meaningful and do not impact dosing recommendations.

Warfarin

In vitro studies indicate that bempedoic acid is not an inhibitor or inducer of CYP2C9. Because warfarin is primarily eliminated through CYP2C9, its pharmacokinetics is not expected to be altered by bempedoic acid.

Other

Bempedoic acid had no effect on the pharmacokinetics of metformin or the oral contraceptive Ortho-Novum 1/35.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Bempedoic acid was negative for mutagenicity in an *in vitro* Ames assay and negative for clastogenicity in the *in vitro* human lymphocyte chromosome aberration assay. Bempedoic acid was negative in both *in vivo* mouse micronucleus and *in vivo* rat bone marrow micronucleus/liver comet assay. In a 2-year rat carcinogenicity study, Wistar rats were given oral doses of bempedoic acid at 3, 10 and 30 mg/kg/day. An increased incidence of liver hepatocellular adenomas and hepatocellular adenomas combined with carcinomas, thyroid gland follicular cell adenoma and follicular cell adenomas combined with carcinomas, and pancreatic islet cell adenomas combined with carcinomas were observed in male rats at the dose of 30 mg/kg/day (exposure equivalent to the maximum recommended human dose (MRHD), based on AUC). In a 2-year mice carcinogenicity study, CD-1 mice were given oral doses of bempedoic acid at 25, 75 and 150 mg/kg/day. Bempedoic acid-related increases in the incidence of liver hepatocellular adenomas, hepatocellular carcinomas and hepatocellular adenomas combined with carcinomas in male mice were observed at 75 and 150 mg/kg/day (exposures equivalent to the MRHD). Observations of liver and thyroid tumors are consistent with PPAR alpha agonism in rodents. The human relevance of pancreatic islet cell tumor findings is unknown.

In fertility and early embryofetal development study in rats, bempedoic acid was given orally to male and female rats at 10, 30 and 60 mg/kg/day. Males were dosed for 28 days prior to mating and females were dosed 14 days prior to mating through gestation day 7. No adverse effects on fertility were observed in females in the absence of maternal toxicity. No effects were observed on male fertility outcomes, but decreases in sperm counts were observed at 60 mg/kg/day (9 times the MRHD).

14 CLINICAL STUDIES

The efficacy of NEXLETOL was investigated in two multi-center, randomized, double-blind, placebo-controlled trials that enrolled 3009 adult patients with heterozygous familial hypercholesterolemia or established atherosclerotic cardiovascular disease who were on maximally tolerated statin therapy. Demographics and baseline disease characteristics were balanced between the treatment arms in all trials. In both trials, the maximum LDL-C lowering effects occurred at Week 4. These results were consistent across all subgroups studied in any of the trials, including age, gender, race, ethnicity, region, history of diabetes, baseline LDL-C, body mass index (BMI), HeFH status, and background therapies.

Study 1 (NCT02666664)

Study 1 was a multi-center, randomized, double-blind, placebo-controlled 52-week trial that evaluated safety and efficacy of bempedoic acid in patients with HeFH and/or ASCVD. Efficacy of NEXLETOL was evaluated at Week 12. The trial included 2230 patients randomized 2:1 to receive either NEXLETOL (n = 1488) or placebo (n = 742) as add-on to a maximally tolerated lipid lowering therapy.

Maximally tolerated lipid lowering therapy was defined as a maximally tolerated statin dose alone or in combination with other lipid-lowering therapies. Patients were stratified by presence of HeFH and by baseline statin intensity. Patients on simvastatin 40 mg per day or higher and patients taking PCSK9 inhibitors were excluded from the trial.

Overall, the mean age at baseline was 66 years (range: 24 to 88 years), 61% were ≥ 65 years old, 27% women, 2% Hispanic, 96% White, 3% were Black, and 1% Asian. Ninety-five percent (95%) of patients had established atherosclerotic cardiovascular disease, and 5% of patients had HeFH. Twenty-nine percent (29%) of patients had diabetes at baseline. The mean baseline LDL-C was 103.2 mg/dL. At the time of randomization, all patients were receiving statin therapy and 50% were receiving high-intensity statin therapy.

The primary efficacy outcome measure of the study was the percent change from baseline to Week 12 in LDL-C. The difference between NEXLETOL and placebo in mean percent change in LDL-C from baseline to Week 12 was -18% (95% CI: -20%, -16%; $p < 0.001$). High-density lipoprotein (HDL) and triglycerides (TG) were examined as exploratory endpoints and were not included in the statistical hierarchy. The difference between NEXLETOL and placebo in mean percent change from baseline to Week 12 was -6% for HDL and median percent change from baseline to Week 12 was +3% for TG. For additional results see Table 2 and Figure 1.

Table 2: Effects of NEXLETOL on Lipid Parameters in Patients with HeFH and/or ASCVD on Maximally Tolerated Statin Therapy (Mean % Change from Baseline to Week 12 in Study 1)

	LDL-C ^{*,†}	Non-HDL-C [†]	apo B [†]	TC [†]
NEXLETOL \pm Statin \pm Other Lipid Lowering Therapies (180 mg/day; n = 1488 [‡])	-17	-12	-9	-10
Placebo (n = 742 [‡])	2	2	3	1
Mean Difference from Placebo (95% CI)	-18 (-20, -16)	-13 (-15, -12)	-12 (-14, -10)	-11 (-13, -10)

apo B = apolipoprotein B; CI = confidence interval; HDL-C = high-density lipoprotein cholesterol; LDL-C = low-density lipoprotein cholesterol; TC = total cholesterol.

Background statin: atorvastatin, simvastatin, pravastatin,

* 4.3% of subjects on NEXLETOL and 2.3% of subjects on placebo had missing LDL-C data at primary endpoint (Week 12). By the end of the trial (Week 52), 8.3% of subjects on NEXLETOL and 7.7% of subjects on placebo had missing LDL-C measurements.

† Percent change from baseline was analyzed using analysis of covariance (ANCOVA), with treatment and randomization strata (HeFH versus ASCVD, and high intensity statin versus other statin) as factors and baseline lipid parameter as a covariate. Missing data for LDL-C, non-HDL-C, TC and apo B were imputed through multiple imputation using a pattern mixture model (PMM) account for treatment adherence.

‡ Number of randomized subjects at baseline

Study 2 (NCT02991118)

Study 2 was a multi-center, randomized, double-blind, placebo-controlled, 52-week trial in patients with HeFH and/or ASCVD. Efficacy of NEXLETOL was evaluated at Week 12. The trial included 779 patients randomized 2:1 to receive either NEXLETOL (n = 522) or placebo (n = 257) as add-on to a

maximally tolerated lipid lowering therapy. Maximally tolerated lipid lowering therapy was defined as a maximally tolerated statin dose alone or in combination with other lipid-lowering therapies. Patients were stratified by presence of HeFH and baseline statin intensity. Patients on simvastatin 40 mg/day or higher were excluded from the trial.

Overall, the mean age at baseline was 64 years (range: 28 to 91 years), 51% were ≥ 65 years old, 36% women, 8% Hispanic, 94% White, 5% were Black, and 1% Asian. Ninety-five percent (95%) of patients had established atherosclerotic cardiovascular disease, and 5% of patients had HeFH. Thirty percent (30%) of patients had diabetes at baseline. The mean baseline LDL-C was 120.4 mg/dL. At the time of randomization, 90% of patients were receiving statin therapy, 53% were receiving high-intensity statin therapy, and 0.3% were receiving PCSK9 inhibitors.

The primary efficacy outcome measure of the study was the percent change from baseline to Week 12 in LDL-C. The difference between NEXLETOL and placebo in mean percent change in LDL-C from baseline to Week 12 was -17 % (95% CI: -21%, -14%; $p < 0.001$). HDL and TG were exploratory endpoints and not included in the statistical hierarchy. The difference between NEXLETOL and placebo in mean percent change from baseline to Week 12 was -6% for HDL and the median percent change from baseline was -2% for TG. For additional results see Table 3 and Figure 1.

Table 3. Effects of NEXLETOL on Lipid Parameters in Patients with HeFH and/or ASCVD on Maximally Tolerated Statin Therapy (Mean % Change from Baseline to Week 12 in Study 2)

	LDL-C ^{*,†}	Non-HDL-C [†]	apo B [†]	TC [†]
NEXLETOL \pm Statin \pm Other Lipid Lowering Therapies (180 mg/day; n = 522 [‡])	-15	-11	-9	-10
Placebo (n = 257 [‡])	2	2	4	1
Difference from Placebo (95% CI)	-17 (-21, -14)	-13 (-16, -10)	-13 (-16, -10)	-11 (-14, -9)

apo B = apolipoprotein B; CI = confidence interval; HDL-C = high-density lipoprotein cholesterol; LDL-C = low-density lipoprotein cholesterol; TC = total cholesterol.

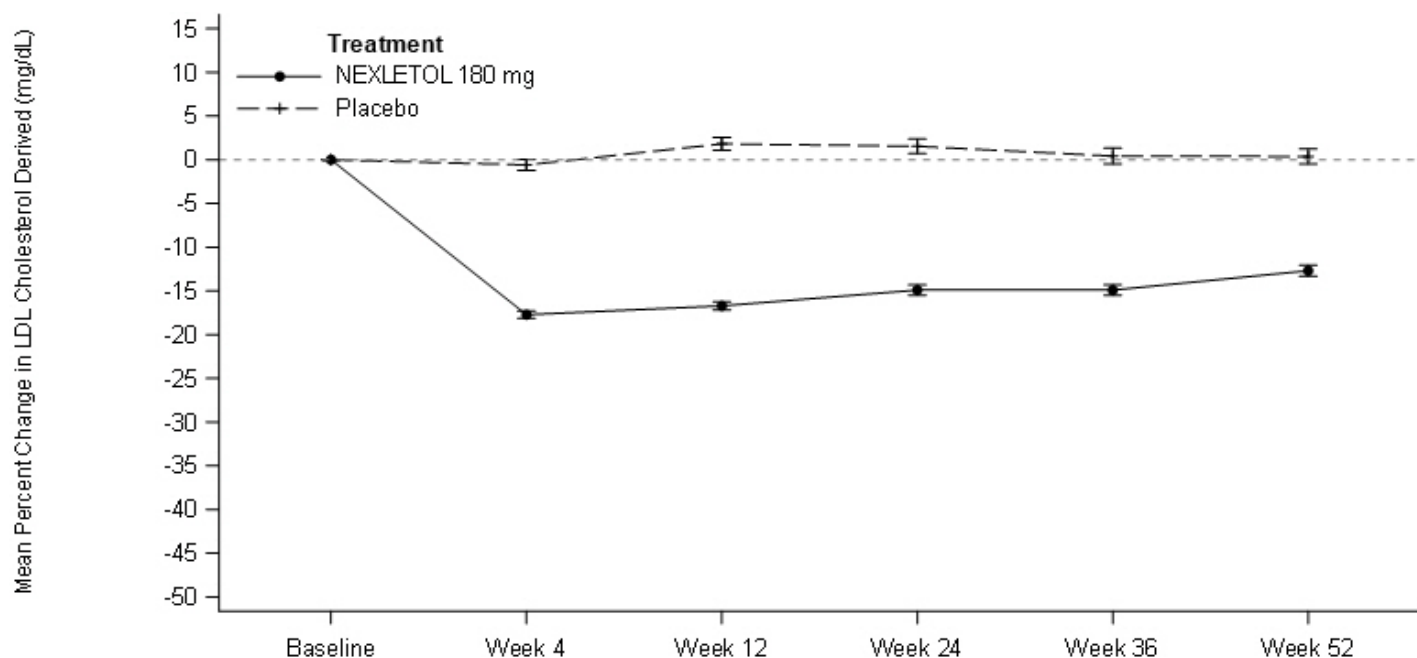
Background statin: atorvastatin, simvastatin, rosuvastatin, pravastatin, fluvastatin, pitavastatin, and lovastatin.

* 4.6% of subjects on NEXLETOL and 1.6% of subjects on placebo had missing LDL-C data at primary endpoint (Week 12). By the end of the trial (Week 52), 10.5% of subjects on NEXLETOL and 7.8% of subjects on placebo had missing LDL-C measurements.

† Percent change from baseline was analyzed using analysis of covariance (ANCOVA), with treatment and randomization strata (HeFH versus ASCVD, and high intensity statin versus other statin) as factors and baseline lipid parameter as a covariate. Missing data for LDL-C, non-HDL-C, TC and apo B were imputed through multiple imputation using a pattern mixture model (PMM) account for treatment adherence.

‡ Number of randomized subjects at baseline

Figure 1: Mean Percent Change from Baseline in LDL-C Over 52 Weeks in Patients with HeFH and/or ASCVD on Maximally Tolerated Statin Treated with NEXLETOL and Placebo (Study 1 and Study 2)



No. of Subjects (n)

NEXLETOL 180 mg	2010	1934	1922	1882	1491	1831
Placebo	999	980	978	954	756	922

LDL-C derived is calculated from the Friedewald equation: $LDL-C = TC - HDL-C - TG/5$ in mg/dL. The error bars represent standard error.

16 HOW SUPPLIED/STORAGE AND HANDLING

How Supplied

NEXLETOL (bempedoic acid) tablets are supplied as follows:

Tablet Strength	Description	Package Configuration	NDC No.
180 mg	White to off white and oval, debossed with "180" on one side and "ESP" on the other side	Bottle of 30 tablets with child-resistant cap	72426-118-03
		Bottle of 90 tablets with child-resistant cap	72426-118-09

Storage and Handling

Store at 68°F to 77°F (20°C to 25°C); excursions permitted to 59°F to 86°F (15°C to 30°C) [see USP Controlled Room Temperature]. Store and dispense in the original package. Do not discard desiccant.

17 PATIENT COUNSELING INFORMATION

Advise patients to read the FDA-approved patient labeling.

Risk of Hyperuricemia

Advise patients of the risk of elevated serum uric acid levels, including development of gout. Inform

patients that serum uric acid levels may be monitored during treatment with NEXLETOL. Patients with signs or symptoms of hyperuricemia should contact their healthcare provider if symptoms occur [See *Warnings and Precautions* (5.1)]

Risk of Tendon Rupture

Inform patients of the risk of tendon rupture. Advise patients to rest at the first sign of tendinitis or tendon rupture and to immediately contact their healthcare provider if tendinitis or tendon rupture symptoms occur [see *Warnings and Precautions* (5.2)].

Risk of Myopathy with Concomitant Use of Simvastatin or Pravastatin

Advise patients to notify their healthcare provider(s) if they are taking, or plan to take simvastatin or pravastatin. The risk of myopathy occurring with the use of simvastatin or pravastatin may be increased when taken with NEXLETOL. [see *Drug Interactions* (7)].

Pregnancy

Advise pregnant women of the potential risk to a fetus based on NEXLETOL's mechanism of action. Advise females to inform their healthcare provider of a known or suspected pregnancy [see *Use in Specific Populations* (8.1)].

Manufactured by:

Piramal Healthcare UK Limited
Northumberland NE61 3YA
United Kingdom

Manufactured for:

Esperion Therapeutics, Inc.
3891 Ranchero Drive, Suite 150
Ann Arbor, MI 48108

NEXLETOL™ (bempedoic acid)
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<p>Patient Information NEXLETOL™ (NEX-le-to) (bempedoic acid) tablets, for oral use</p>

What is NEXLETOL?

NEXLETOL is a prescription medicine used along with diet and other lipid-lowering medicines in the treatment of adults with:

- heterozygous familial hypercholesterolemia (HeFH). HeFH is an inherited condition that causes high levels of "bad" cholesterol called low density lipoprotein (LDL).
- known heart disease who need additional lowering of "bad" cholesterol (LDL-C) levels.

It is not known if NEXLETOL can decrease problems from high cholesterol, such as heart attacks, stroke, death, or other heart problems.

It is not known if NEXLETOL is safe and effective in people with severe kidney problems including people with end-stage kidney disease who are on dialysis.

It is not known if NEXLETOL is safe and effective in people with severe liver problems.

It is not known if NEXLETOL is safe and effective in children under 18 years of age.

Before you start taking NEXLETOL, tell your healthcare provider about all your medical conditions, including if you:

- have or had gout.
- have or had tendon problems.
- are pregnant. Tell your healthcare provider right away if you become pregnant while taking

NEXLETOL. You and your healthcare provider will decide if you should take NEXLETOL while you are pregnant.

- are breastfeeding or plan to breastfeed. It is not known if NEXLETOL passes into your breast milk. You and your healthcare provider should decide if you will take NEXLETOL or breastfeed. You should not do both.
- have severe kidney problems.
- have severe liver problems.

NEXLETOL may affect the way other medicines work, and other medicines may affect how NEXLETOL works. **Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.**

Especially tell your healthcare provider if you take or plan to take simvastatin or pravastatin (other cholesterol lowering medicines). Taking simvastatin or pravastatin with NEXLETOL may increase your risk of developing muscle pain or weakness (myopathy). Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist when you get a new medicine.

How should I take NEXLETOL?

- Take NEXLETOL exactly as your healthcare provider tells you to take it. Check with your healthcare provider or pharmacist if you are not sure.
- Take 1 NEXLETOL tablet by mouth each day.
- You may take NEXLETOL with or without food.
- If you take too much NEXLETOL, call your poison control center at 1-800-222-1222 or go to the nearest hospital emergency room right away.

What are possible side effects of NEXLETOL?

NEXLETOL may cause serious side effects, including:

- **increased levels of uric acid in your blood (hyperuricemia).** This can happen within 4 weeks of you starting NEXLETOL and continue throughout your treatment. Your healthcare provider may monitor your blood uric acid levels while you are taking NEXLETOL. High levels of blood uric acid may lead to gout. Call your healthcare provider if you have the following symptoms of hyperuricemia and gout:

- severe foot pain especially in the toe joint
- warm joints
- swelling
- tender joints
- joint redness

Gout may happen more in people who have had gout before but also can happen in people who have never had it before.

- **tendon rupture or injury. Tendon problems can happen in people who take NEXLETOL.** Tendons are tough cords of tissue that connect muscles to bones. Symptoms of tendon problems may include pain, swelling, tears, and inflammation of tendons including the arm, shoulder, and back of the ankle (Achilles).
 - **Tendon rupture can happen while you are taking NEXLETOL.** Tendon ruptures can happen within weeks or months of starting NEXLETOL.
 - **The risk of getting tendon problems while you take NEXLETOL is higher if you:**
 - are over 60 years of age
 - are taking antibiotics (fluoroquinolones)
 - have had tendon problems
 - are taking steroids (corticosteroids)
 - have renal failure
 - **Stop taking NEXLETOL immediately and get medical help right away if you get any of the following signs or symptoms of a tendon rupture:**
 - hear or feel a snap or pop in a tendon area

- bruising right after an injury in a tendon area
- unable to move the affected area or put weight on the affected area

Stop taking NEXLETOL until tendon rupture has been ruled out by your healthcare provider. Avoid exercise and using the affected area. The most common areas of pain and swelling are the rotator cuff (the shoulder), the biceps tendon (upper arm), and Achilles tendon at the back of the ankle. This can happen with other tendons.

- **Talk to your healthcare provider about the risk of tendon rupture with continued use of NEXLETOL.** You may need a different lipid-lowering medicine to treat your cholesterol levels.

The most common side effects of NEXLETOL include:

- symptoms of the common cold, flu, or flu-like symptoms
- back pain
- stomach pain
- increased liver enzymes
- muscle spasms
- pain in shoulder, legs, or arms
- anemia
- bronchitis

Tell your healthcare provider if you have any side effect that bothers you or that does not go away. These are not all the possible side effects of NEXLETOL.

For more information, ask your healthcare provider or pharmacist. **Call your healthcare provider for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.**

How should I store NEXLETOL?

- Store NEXLETOL in the original package at room temperature between 68°F to 77°F (20°C to 25°C).
- **Do not** throw away the packet that helps to keep your medicine dry (desiccant).

Keep NEXLETOL and all medicines out of the reach of children.

General information about the safe and effective use of NEXLETOL.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. **Do not** use NEXLETOL for a condition for which it was not prescribed. **Do not** give NEXLETOL to other people, even if they have the same symptoms that you have. It may harm them. You can ask your pharmacist or healthcare provider for information about NEXLETOL that is written for healthcare professionals.

What are the ingredients in NEXLETOL?

- **active ingredient:** bempedoic acid
- **inactive ingredients:** colloidal silicon dioxide, hydroxyl propyl cellulose, lactose monohydrate, magnesium stearate, microcrystalline cellulose, and sodium starch glycolate
- **tablet coating:** partially hydrolyzed polyvinyl alcohol, polyethylene glycol, talc, and titanium dioxide

Manufactured by:
Piramal Healthcare UK Limited
Northumberland NE61 3YA
United Kingdom
Manufactured for:
Esperion Therapeutics, Inc.
3891 Ranchero Drive, Suite 150
Ann Arbor, MI 48108
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This Patient Package Insert has been approved by
the U.S. Food and Drug Administration

Revised: 02/2020

PRINCIPAL DISPLAY PANEL - 30 Tablet Bottle Label

NDC 72426-118-03

Rx only

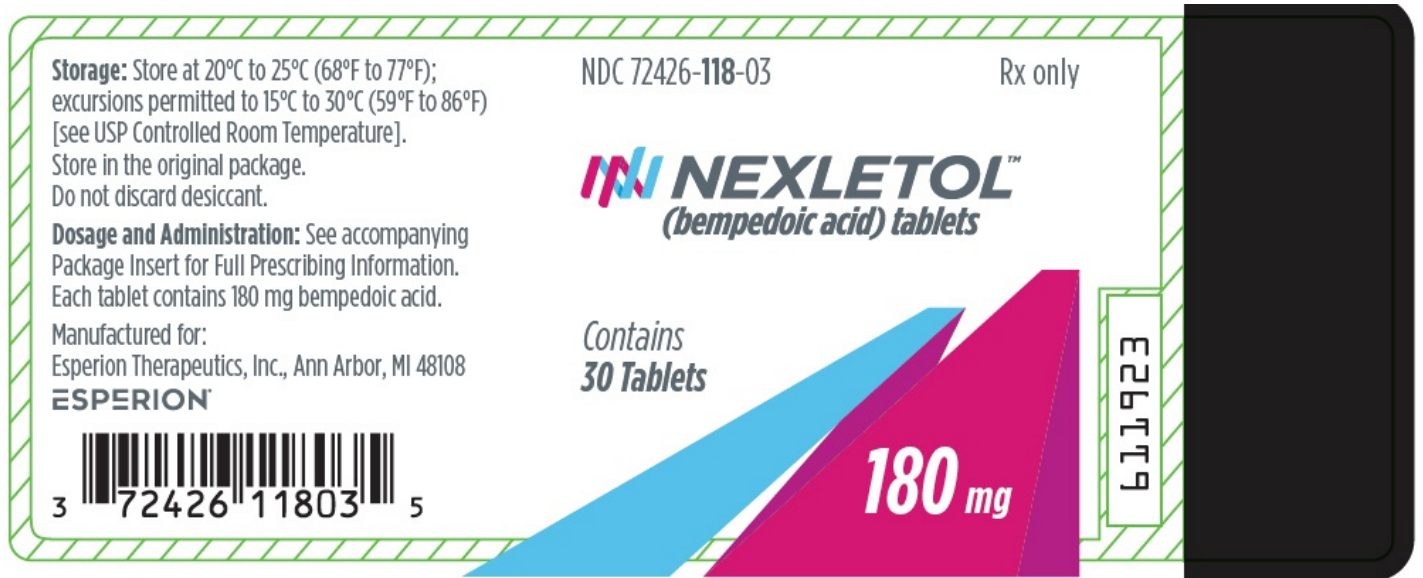
NEXLETOL™

(bempedoic acid) tablets

Contains

30 Tablets

180 mg



NEXLETOL

bempedoic acid tablet, film coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:72426-118
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Bempedoic Acid (UNII: 1EJ6Z6Q368) (Bempedoic Acid - UNII:1EJ6Z6Q368)	Bempedoic Acid	180 mg

Inactive Ingredients

Ingredient Name	Strength
MICROCRYSTALLINE CELLULOSE 101 (UNII: 7T9FYH5QMK)	
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
HYDROXYPROPYL CELLULOSE, UNSPECIFIED (UNII: 9XZ8H6N6OH)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
SODIUM STARCH GLYCOLATE TYPE A POTATO (UNII: 5856J3G2A2)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	

POLYVINYL ALCOHOL, UNSPECIFIED (UNII: 532B59J990)				
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)				
POLYETHYLENE GLYCOL, UNSPECIFIED (UNII: 3WJQ0SDW1A)				
TALC (UNII: 7SEV7J4R1U)				
Product Characteristics				
Color	WHITE (White to off-white)		Score	no score
Shape	OVAL		Size	14mm
Flavor			Imprint Code	180;ESP
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:72426-118-03	30 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	03/06/2020	
2	NDC:72426-118-09	90 in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product	03/06/2020	
3	NDC:72426-118-99	7 in 1 BLISTER PACK; Type 0: Not a Combination Product	03/06/2020	
Marketing Information				
Marketing Category		Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA		NDA211616	03/06/2020	

Labeler - Esperion Therapeutics, Inc. (029516312)

Establishment			
Name	Address	ID/FEI	Business Operations
Piramal Healthcare UK Limited		345609965	MANUFACTURE(72426-118) , ANALYSIS(72426-118) , PACK(72426-118) , LABEL(72426-118)

Establishment			
Name	Address	ID/FEI	Business Operations
Anderson Brecon, Inc. DBA Packaging Coordinators, Inc. (PCI)		053217022	PACK(72426-118) , LABEL(72426-118)

Establishment			
Name	Address	ID/FEI	Business Operations
Packaging Coordinators, LLC DBA Packaging Coordinators, Inc. (PCI)		078525133	PACK(72426-118) , LABEL(72426-118)

Revised: 3/2020

Esperion Therapeutics, Inc.